INTERNATIONAL SEARCH REPORT

Internat Ilication No PCT/IB 03/05408

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H03F1/30 H03F1/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{H03F} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
P,X, L	WO 03 034586 A (KONINKL PHILIPS ELECTRONICS NV) 24 April 2003 (2003-04-24) page 1, line 1 -page 10, line 12; figures 1,2	1-5,7-9				
X	US 6 043 714 A (MIYAZAKI YUKIO ET AL) 28 March 2000 (2000-03-28) column 11, line 40 -column 12, line 22; figure 5	1,7-9				
Х	US 2002/024390 A1 (OHBU ISAO ET AL) 28 February 2002 (2002-02-28) paragraphs '0028!,'0033!; figures 1,8	1,2,6-9				
X	US 2002/171483 A1 (SUEMATSU NORIHARU ET AL) 21 November 2002 (2002-11-21) paragraphs '0002!,'0048!-'0055!; figure 3	1,2,5,8, 9				

Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.			
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is c≥ed to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed Date of the extremental prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family			
9 March 2004	Date of mailing of the international search report 16/03/2004			
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Dietsche, S			

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X	US 6 271 695 B1 (GRAMEGNA GIUSEPPE ET AL) 7 August 2001 (2001-08-07) column 4, line 21 -column 5, line 8; figure 5		1,6,8,9		
A	GB 2 186 141 A (PLESSEY CO PLC) 5 August 1987 (1987-08-05) figure 3		6		
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